

## SYLVACOTE™ 4984 Modified Rosin Ester

### PRODUCT DATA SHEET

SYLVACOTE 4984 modified rosin ester binder enables pavement marking formulators to reduce TiO<sub>2</sub> use in thermoplastic traffic striping formulations because binder color remains low during melting and application. Markings can be formulated with SYLVACOTE 4984 to deliver long lasting visibility with reduced cost-in-use.

#### FEATURES

- Color stability during application
- Good adhesion with glass beads, anti-skid aggregates and the pavement
- Initial and long term retro-reflectivity
- Adhesion to damp substrates
- Oil & gas resistance
- Produced from a purified pine feedstock and formulated to a controlled specification
- Based on a renewable, non-food, non-animal raw material

#### POTENTIAL APPLICATION

- Spray- or screed-applied thermoplastic traffic striping
- Preformed thermoplastic pavement marking
- Thermoplastic pavement marking tape

#### SALES SPECIFICATIONS

Property	Test Method* (Kraton method)	Specification	Typical Value
Softening Point (°C)	ASTM E28-99 (AQCM 003)	103 - 110	107
Color, Gardner, Neat	ASTM D6166 (AQCM 002)	Max. 6	4-
Acid value (mg KOH/g)	ASTM D465 (AQCM 001)	30 - 45	38

\*Kraton internal methods are based on referenced standard method. Guidance is available upon request.

#### TYPICAL VALUES

Property	Test Method* (Kraton method)	Typical Value	
Glass Transition Temperature (°C)	Internal method (AQCM 218)	63	
Flashpoint (°C)	ASTM D92 (AQCM 007)	>250	
Viscosity (mPa.s)	ASTM D2196 (AQCM 004)	135°C	12500
		150°C	2500
		180°C	300
		200°C	115

\*Kraton internal methods are based on referenced standard method. Guidance is available upon request.

<p><b>SOLUBILITY</b></p>	<p>SYLVACOTE 4984 is soluble in: solvents like hexane &amp; toluene</p> <ul style="list-style-type: none"> <li>- Esters and ketones like ethylacetate and acetone</li> <li>- Long chain alcohols like pentanol.</li> </ul> <p>Insoluble in smaller alcohols like ethanol and propanol.</p>
<p><b>COMPATIBILITY</b></p>	<p>SYLVACOTE 4984 can be plasticized with mineral oil, vegetable oil or tall oil esters and is compatible with:</p> <ul style="list-style-type: none"> <li>- Hot melt polyamides</li> <li>- Most commonly used EVA copolymers</li> <li>- Polyethylene waxes</li> <li>- Natural rubber &amp; synthetic rubber (SIS, SBR and SBS)</li> </ul>
<p><b>PACKAGING</b></p>	<p>SYLVACOTE 4984 is delivered in 50 lb bags and in 2000 lb bulk bags.</p>
<p><b>STORAGE RECOMMENDATION</b></p>	<p>To preserve product quality, storage and transit dry and below 25°C/ 77°F is recommended. To prevent remassing, keep away from direct sun light or other sources of heat. Product stored or transported at higher temperatures should be evaluated for impact on performance before use.</p>

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